

CEMP-ET

DEPARTMENT OF THE ARMY
U.S. Army Corps of Engineers
Washington, D.C. 20314-1000

ETL 1110-1-139

Engineer Technical
Letter 1110-1-139

22 June 1990

Engineering and Design
SELECTING ASPHALT CEMENTS

1. Purpose. This letter updates, guidance for selecting asphalt cements for pavement construction as outlined in section 6-2 of TM 5-822-8/AFM 88-6, Chapter 9, "Bituminous Pavements Standard Practice".
2. Applicability. This letter is applicable to all HQUSACE elements and field operating activities (FOA) having Army, Air Force and military and civil works construction design responsibility.
3. References. The following references provide necessary general information, definitions and design guidance for pavements:
 - a. TM 5-822-5/AFM 88-7, Chap. 3.
 - b. TM 5-822-8/AFM 88-6, Chap. 9.
 - c. TM 5-818-2/AFM 88-6, Chap. 4.
 - d. ASTM D 946.
 - e. ASTM D 3381.
4. Background. Asphalt cements used in pavement construction are currently graded or classified on the basis of two different systems: penetration or viscosity. Within the continental United States (CONUS), penetration grading of asphalt cement has been generally replaced by viscosity grading. Outside the continental United States (OCONUS), penetration grading of asphalt cements is still common. Because of effects of the grading system change and the accumulation of many years of pavement performance data based on the penetration grading system, this letter is needed to provide guidance in selecting asphalt cements.
5. Action to be Taken. Pending publication of permanent media guidance, the criteria provided at Enclosures 1 and 2 will be used as an interim for selecting asphalt cements. Selection of asphalt cement grades for Army facilities in cold regions will be coordinated with HQUSACE (CEMP-ET), WASH, DC 20314-1000. Approval and selection of asphalt cements for Air Force airfields will be coordinated with the appropriate CEMP-ET mandatory center of expertise.

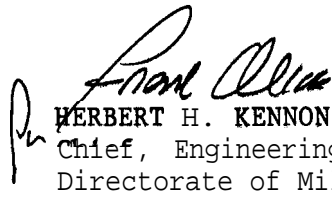
This ETL supersedes ETL 1110-3-369, 28 March 1986.

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6. Implementation. This letter will have routine application for military construction as defined in paragraph 6c, ER 1110-345-100.

FOR THE COMMANDER:

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